

NAHIDA AKTAR TANJILA

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Education

Master of Science (With Thesis) in Physical Chemistry

February 2016 -April 2018

Result : CGPA 3.95 on a scale of 4.00

Institution : Shahjalal University of Science and Technology (SUST), Sylhet, Bangladesh.

Thesis : “Electrochemical and spectroscopic insights of interactions between alizarin red s and arsenic.”

Thesis Advisor : Dr. Mohammad Abul Hasnat

Bachelor of Science in Chemistry (B.Sc.)

January 2011- September 2015

Result : CGPA 3.73 on a scale of 4.00

Institution : Shahjalal University of Science and Technology (SUST), Sylhet, Bangladesh.

Research Project : “Project title: Electrokinetic investigations of Dopamine oxidation reduction reactions.”

Research Advisor : Dr. Mohammad Abul Hasnat

STANDARDIZED SCORE

International English Language Testing (IELTS) Score:

Overall Score	Listening	Reading	Writing	Speaking	Test Date
6.5	6.0	6.0	6.5	6.5	7 November 2024

WORK EXPERIENCE

Assistant Professor

13 January 2025 – Present

Weekly working hours: 40 hours

Department of Basic Science & Humanities,

University of Asia Pacific, Green Road, Farmgate, Dhaka-1205, Bangladesh.

Major Responsibilities:

- Conduct classes of “Chemistry of Engineering Materials”, “Inorganic Quantitative Analysis”, and “Fundamental Chemistry” courses in Computer Science and Civil Engineering departments.
- Instruct laboratory experiments regarding the concentration calculation of chemicals and metallic substances such as Cu, Fe, Ca, and Mg.
- Supply course materials, prepare question papers, evaluate answer scripts, and publish results.

Lecturer

28 December 2022 – 12 January 2025

Weekly working hours: 40 hours

Department of Basic Science & Humanities,

University of Asia Pacific, Green Road, Farmgate, Dhaka-1205, Bangladesh.

Major Responsibilities:

- Conduct classes of “Chemistry of Engineering Materials”, “Inorganic Quantitative Analysis”, and “Fundamental Chemistry” courses in Computer Science and Civil Engineering departments.

- Instruct laboratory experiments regarding the concentration calculation of chemicals and metallic substances such as Cu, Fe, Ca, and Mg.
- Supply course materials, prepare question papers, evaluate answer scripts, and publish results.

Lecturer

1st January 2019 – 27 December 2021

Weekly working hours: 32.5 hours

Department of SC & HUM, Military Institute of Science and Technology (MIST), Mirpur Cantonment, Dhaka-1216, Bangladesh.

Major Responsibilities:

- Conduct classes of “Chemistry of Engineering Materials”, “Inorganic Quantitative Analysis”, and “Fundamental Chemistry” courses in Computer Science and Civil Engineering departments.
- Instruct laboratory experiments regarding the concentration calculation of chemicals and metallic substances such as Cu, Fe, Ca, and Mg.
- Supply course materials, prepare question papers, evaluate answer scripts, and publish results.

AWARDS

- TWAS scholarship for eighteen months
- Shahjalal University of Science & Technology Merit Grant for Academic Result.
- National Science & Technology Fellowship 2017-18
- Scholarship for cumulative B.Sc result by Shahjalal University of Science and Technology, Sylhet, Bangladesh, 2014
- Distinction with thesis for M.S. result, 2016.

RESEARCH EXPERIENCE

Research Assistant | TWAS Research Grant

May 2022 – Present

Project Title: pH dependent kinetic insights of electrocatalytic arsenite oxidation reactions at Pt surface

Project Supervisor: Dr. Mohammad Abul Hasnat, Dr. Iqbal Ahmed Siddiquey

Research Assistant | SUST Research Centre

Project Title: An Electrochemical Approach to As (V) Determination via an Interaction with Alizarin Red S in Aqueous Medium

Project Supervisor: Dr. Mohammad Abul Hasnat

RESEARCH SKILLS

Techniques: Synthesis of Nanoparticle and Nanocomposites, Synthesis using microwave irradiation method, Cyclic Voltammetry, Square Wave Voltammetry, Bulk Electrolysis, Chronoamperometry, Electrochemical Impedance Spectroscopy (EIS), Hydrodynamic Voltammetry, UV-Visible Spectroscopy, Infra-Red Spectroscopy, Photoluminescence Spectroscopy.

Instruments: Autolab Potentiostat 128N (Metrohm, Netherlands), CHI Instruments 602E, 660E, Wave Driver 20 (Pine Research Instruments), BioLogic SP-200, UV-Visible Spectrophotometer (UV-1800, Shimadzu), Spectrofluorometer (RF-53021pc, Shimadzu), FT- IR Spectrophotometer (IR Prestige 21, Shimadzu), etc.

Softwares: Windows operating systems (10, 7 and XP), Microsoft Office, NOVA 1.11 Electrochemical Analyzer, CHI 660 and CHI 602 Electrochemical Analyzer, Sigma Plot, Chem Draw.

PUBLICATIONS

- “Electrochemical and spectroscopic insights of interactions between alizarin red S and arsenite ions” ; **Nahida Tanjila**, Asif Rayhan, Md. Saiful Alam, Iqbal A. Siddiquey, Mohammad A. Hasnat. **RSC Adv.** , **2016,6,93162**.
- “pH dependent kinetic insights of electrocatalytic arsenite oxidation reactions at Pt surface”; Mohammad A. Hasnat, Mohammad M. Hasan, **Nahida Tanjila**, Md Mahbubul Alam , Md Musfiquir Rahman. **ElectrochimicaActa**, **2017,225, 105-113**.
- Book Chapter: "Electrochemical Methods for the Detection of Toxic As(III) and As(V) from Natural Water"; Mohammad Hasnat, **Nahida Tanjila**, Md. Musfiquir Rahman, Mohammed M. Rahman; Book Title: Combined: Application of Physico-Chemical & Microbiological Processes for Industrial Effluent Treatment Plant ISBN:978-981-15-0496-9; Editors: Shah, Maulin P, Banerjee, Aditi (Eds.); **Publisher: Springer** , (DOI: 10.1007/978-981-15-0497-6)
- “An Electrochemical Approach to As(V) Determination via an Interaction with Alizarin Red S in Aqueous Medium”; **Nahida Tanjila**, Mohebul Ahsan, Sami Ben Aounb, Iqbal Ahmed Siddiquey, Syed Shamsul Alam, and Mohammad A. Hasnat. **Journal of Analytical Chemistry**, (DOI: 10.1134/S106193482112008X)

PROFESSIONAL TRAINING

- Chemical Analysis and Quality Control Training by Training Institute for Chemical Industries (Central Training Institute of BCIC), Polash, Narsingdi, from 30-01-2016 to 25-02-2016.

INTERNATIONAL CONFERENCES

- Attended the TWAS-ROCASA Regional Conference of Young Scientists, 21 December to 22 December 2015 at Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur, and Bangalore, India.
- Attended the 16th Asian Chemical Congress (16ACC), 16 March to 19 March 2016 at Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh.

REFERENCES

Dr. Mohammad Abul Hasnat

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Shahjalal University of Science and Technology, Sylhet-3114, Bangladesh.

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Dr. Iqbal Ahmed Siddiquey

Professor, Department of Chemistry School of Physical Sciences

Shahjalal University of Science and Technology, Sylhet-3114, Bangladesh.

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